

Smart buoy platform for autonomous monitoring of marine fauna and birdlife

Sector: Marine monitoring & surveillance

Short description of the needs:

Bio-Consulting develops and carries out wildlife monitoring activities (cetaceans and birdlife) in offshore and coastal contexts, with a particular focus on Environmental Impact Studies. The need for innovation expressed concerns the creation of an autonomous monitoring technology platform (Smart Buoy Platform), equipped with acoustic and optical sensors, capable of identifying birdlife through RADAR and LIDAR technology and cetaceans through underwater acoustics. The platform must be capable of operating in real time and continuously at sea, be energy self-sufficient, and integrate Artificial Intelligence systems for the automatic recognition of cetaceans and birdlife and the generation of alerts (edge + cloud). The company also requires the identification and qualification of materials, coatings and construction solutions for buoys, probes and housings that guarantee robustness, durability and resistance to biofouling.

More info: For more information apply to eccentric@imast.it

Company: Bio-consulting S.r.l.

Point of contact for the brief/challenge: IMAST - High Tech District on Engineering of Composite Materials and Polymers

Company position in the value chain: Tier 1 supplier